

V-Wrap 776 HTg - Putty Filler

PHYSICAL PROPERTIES:

Glass Transition Temperature (ASTM 3418):	520°F (288°C)
VOC Content:	Less than 1% per volume
Density:	9.58 lbs/gal (1.2 kg/L)
Tensile Strength (ASTM D638):	4,500 psi (31 MPa)
Tensile Modulus (ASTM D638):	450,000 psi (3,100 MPa)
Elongation at Break (ASTM D638):	1.0%
Flexural Strength (ASTM D790):	10,000 psi (69 MPa)
Flexural Modulus (ASTM D790):	420,000 psi (2,900 MPa)
Elongation at Break (ASTM D638):	2.5%
Compressive Strength (ASTM D695):	14,000 psi (96 MPa)
Compressive Modulus (ASTM D695):	450,000 psi (3,100 MPa)
Elongation at Failure (ASTM D638):	7%

DESCRIPTION:

V-Wrap 776 HTg Putty Filler is a 100% solids, medium viscosity, non-sag resin paste for use with the V-Wrap Composite Strengthening Systems. It is used to level small surface defects, round 90° corners and to provide a smooth surface to which the V-Wrap System will be applied, or may also be used as a “tack” coat for V-Wrap System. The Putty Filler Resin is applied after the surface is properly prepared and primed.

V-Wrap 776 HTg Putty Filler is a high temperature resistant, high glass transition temperature (Tg) resin that can be used with V-Wrap Fire Protection System to achieve up to 4 hours fire rating. It can also be used for elevated temperature applications for which typical solvent-based resins can not be used. Glass transition temperature of the V-Wrap 776 HTg Putty Filler exceeds 520°F, making it an ideal candidate wherever high temperature performance is a necessity.

V-Wrap 776 HTg Putty Filler is an environmentally friendly resin that emits less than 1% VOC and no HAP, solvents free, and minimum odor. The resin is perfect for healthcare facilities, hospitals, schools, industrial and highly populated areas as well as food and drug industries.

V-Wrap 776 HTg Putty Filler can be UV cured for faster installation and to reduce interruptions to facilities operations.

APPLICATION INFORMATION:

Mix Ratio: 1 Unit Part A to 2 Units Part B (or fractions thereof).

Approximate Pot Life:

40 min at 77°F (25°C)

Surface Preparation:

V-Wrap 776 HTg Putty Filler should be applied to prepared substrates that are primed, moisture free, and are free of dust, oils, other surface contaminants, or bond inhibiting materials.

Application Equipment:

A 1/4” (medium) nap roller or trowel is recommended for application.

Mixing:

Mix entire unit for best results. Part A must be mechanically premixed separately for 2 minutes. After premixing, blend Part A and Part B with a mechanical mixer for 2 minutes until a homogeneous mixture is achieved. If required, minor concrete defects such as bugholes and form lines or partial depth repairs can be filled with V-Wrap 776 HTg. After mixing Parts A and B, a cabosil untreated fume silica (or equal) may be added in order to modify the consistency of the material for placement. The maximum ratio of cabosil to V-Wrap 776 HTg is 1:1 by volume.

Application:

Apply one coat of the V-Wrap 776 HTg Putty Filler Resin directly to the prepared substrate using a 1/4” (medium) nap roller or trowel at 15-20 mils prior to installation of V-Wrap fabric or laminates systems. If needed, the putty resin can be finished using UV light. Contact VSL Customer Support for procedures and equipments.

Coverage Rate:

Depending on surface roughness: 60 to 70 ft²/gal (1.5-1.7 m²/L) at 20 mils.



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Limitations:

Only apply V-Wrap 776 HTg Putty Filler when the ambient temperature is between 40° and 100°F (4° and 38°C).

Clean Up:

Use methyl ethyl ketone or acetone. Observe fire and health precautions when using solvents.

Observe Working Time Limitations:

Catalyze no more material than can be applied within the worktime period. Available work time, temperature and complexity of the application area will determine how much material should be catalyzed at one time. Keep material cool and shaded from direct sunlight in warm weather. During hot weather, work time can be extended by keeping material cool before and after mixing or by immersing pot in ice water.

HANDLING PROPERTIES:

Mixed Viscosity: at 77°F (25° C) 9,000 cps

Color:

Part A	Medium Gray
Part B	Clear
Mixed	Medium Gray

Shelf Life:

Stored at 70°F (21°C): 12 months (Part A and B)

Packaging:

	Volume	Weight	Packaging
Part A	2 gal.	19.16 lbs	3 gal. pail
Part B	6 fl. oz.	6 oz.	2 -3 fl oz. bottle

STORAGE:

Store in a cool, dry area (40° to 90°F (4° to 32°C)) away from direct sunlight, flame, or other hazards.

SAFETY:

WARNING: Vapor may be harmful. Contains vinyl ester resins and curing agent. May cause skin sensitivity or other allergic responses. Keep away from heat, sparks or open flame. In enclosed areas or where ventilation is poor use an approved air mask and utilize adequate safety precautions to prevent fire or explosion. In case of skin contact, wash with soap and water. For eyes, flush immediately (seconds count) with water for 15 minutes and CALL A PHYSICIAN. If swallowed, CALL A PHYSICIAN IMMEDIATELY.

Product Material Safety Data Sheets (MSDS) are available and should be consulted and on hand whenever handling these products.

These products are for professional and industrial use only and are only installed by trained and qualified applicators. Trained applicators must follow installation instructions.

MAINTENANCE:

Periodically inspect the applied material and repair localized areas as needed. Consult a V-wrap representative for additional information.

VStructural LLC. warrants its products to be free from manufacturing defects and to meet VSL's current published properties when applied in accordance with VSL directions and tested in accordance with ASTM and VSL Standards. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product and excludes labor or the cost of labor. Any claim for breach of this warranty must be brought within one year of the date of purchase.

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